

CLAIMS

1. A laminated, plate-shaped element (1) with at
5 least a first and a second substrate (1.1, 1.2), which
are joined together, at least indirectly, by adhesive
bonding, and also with at least one support element (5)
associated with the first substrate (1.1) in order to
fasten the laminated element (1) to an infrastructure
10 (6) and active position fastening of the second
substrate, at least in the event of failure of the
bonded joint, characterized in that the position
fastening (7, 8, 9) is active only between the first
and second substrates and is placed a certain distance
15 from the edge of said substrates.

2. The laminated element as claimed in claim 1,
characterized in that the position fastening comprises
at least one fastening element (9) passing through a
20 plane of the bonded assembly between the two substrates
(1.1, 1.2) and each time engaging in a recess (7, 8) in
each substrate.

3. The laminated element as claimed in claim 1 or 2,
25 the two substrates (1.1, 1.2) of which are joined
together by surface bonding by means of a layer of
adhesive (2).

4. The laminated element as claimed in claim 2 or 3,
30 in which the recess (7) in at least one of the
substrates is a through-drillhole.

5. The laminated element as claimed in claim 2 or 3
or 4, in which the drillhole (8) in at least one (1.1)
35 of the substrates emerges only in that face of this
substrate which is turned toward the adhesive (2), said
recess being produced in particular in the form of a
blind hole or of a groove.

6. The laminated element as claimed in any one of the preceding claims 2 to 5, characterized in that the fastening element (9) is produced in the form of a
5 round tenon with a head part (9K) and a shank part (9S).

7. The laminated element as claimed in any one of the preceding claims 2 to 5, characterized in that the
10 fastening element (9') is produced in the form of a cylindrical pin.

8. The laminated element as claimed in any one of the preceding claims, characterized in that the position
15 fastening element does not project from the surfaces of the two substrates (1.1, 1.2).

9. The laminated element as claimed in any one of the preceding claims, characterized in that it is provided
20 with visual masking (10) in the region of the position fastening.

10. The laminated element as claimed in any one of the preceding claims, characterized in that a fastening
25 element for the position fastening is fastened by adhesive bonding in a recess into which said element is introduced.

11. The laminated element as claimed in any one of the preceding claims, characterized in that a fastening
30 element for the position fastening is immobilized by adhesion in a recess into which it is introduced.

12. The laminated element as claimed in claim 11,
35 characterized in that the fastening element comprises at least one element that can deform elastically and/or plastically upon its introduction into the recess.

13. The laminated element as claimed in any one of the preceding claims, characterized in that a fastening element for the position fastening is fastened, by assembly of the two substrates with the adhesive, in a
5 recess into which it is introduced.

14. The laminated element as claimed in any one of the preceding claims, characterized in that it includes at least one functional element (3), in particular solar
10 cells, said element being placed between the two substrates (1,1, 1.2).

15. The laminated element as claimed in any one of the preceding claims, characterized in that at least one support element (5) associated with the first substrate (1.1) comprises a support bolt, which is fastened by adhesion and/or by interlocking, in particular by means of an undercut dowel, in a blind hole in the substrate (1.1) emerging on the opposite side from the adhesive.
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20 16. The laminated element as claimed in any one of the preceding claims 1 to 14, characterized in that it is joined along its edge to support elements.

25 17. A laminated, plate-shaped element with at least a first and a second substrate, which are joined together by adhesive bonding, indirectly via a spacing means, and also with at least one support element associated with the first substrate in order to fasten the
30 laminated element to an infrastructure and active position fastening of the second substrate at least in the event of failure of the bonded joint, characterized in that the position fastening is active between the spacing means, on the one hand, and the first and/or
35 the second substrate on the other.

18. The laminated element as claimed in claim 17, characterized in that the position fastening comprises at least one fastening element passing through a plane

of the adhesively bonded assembly between the spacing means and at least one of the two substrates and each time engaging in a recess in each substrate.

- 5 19. The laminated element as claimed in claim 17 or 18, characterized in that the position fastening comprises at least one fastening element passing through the spacing means and each time engaging in a recess in each substrate.